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Three dimension color printing quick forming device and method

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The present invention discloses a kind of 3D color printing and quick forming device and method. The 3D color printing and quick forming device includes an X-Y scanning platform and a Z motion mechanism. The X-Y scanning platform is provided with powder providing tank, forming tank, powder roller and printing head; and the Z motion mechanism includes pistons inside the powder providing tank and the forming tank. The quick forming process is one combination of quick forming technology and color printing technology and includes the following steps: jetting pigment of different colors with the precise printing head to the compact powder material inside the forming tank to form color cross section pattern, curing the powder material, lowering the powder material inside the forming tank by the height of one layer thickness while raising the powder material inside the powder providing tank by one layer thickness, forming one new powder material layer, and so on until forming the cured body.

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